

(19) World Intellectual Property
Organization
International Bureau



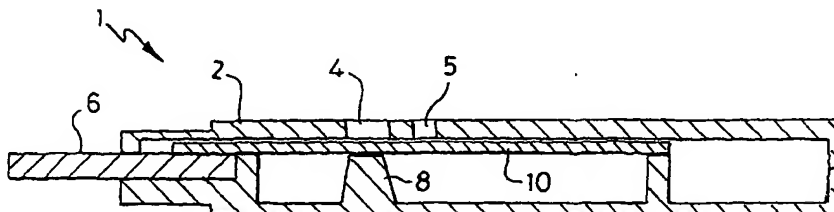
(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/003559 A1

- (51) International Patent Classification⁷: **G01N 33/558, 33/543**
- (21) International Application Number:
PCT/GB2003/002765
- (22) International Filing Date: **26 June 2003 (26.06.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
02254517.2 27 June 2002 (27.06.2002) EP
- (71) Applicant (for all designated States except US): **INVERNESS MEDICAL SWITZERLAND GMBH [CH/CH]; Bundesplatz 10, CH-6300 Zug (CH).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BREWSTER, Barry, Sinclair [GB/GB]; 10 Towne Road, Royston, Herts SG8 9ES (GB). WALKER, Adrian, Leslie [GB/GB]; 42 Park Avenue, Little Paxton, St. Neots, Cambs PE19 6PE (GB). DAVIES, Robert, John [GB/GB]; 1 Saxon Road, Cambridge, Cambs CB5 8HS (GB).**
- (74) Agents: **HINDLE, Alistair, Andrew et al.; Keith W Nash & Co, 90-92 Regent Street, Cambridge CB2 1DP (GB).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **ASSAY DEVICE FOR LIQUID SAMPLE**



(57) Abstract: Disclosed is an assay device comprising liquid transport means adapted to take up a liquid sample and conduct the liquid to an analyte detection region operable to provide a test signal indicative of the presence and/or amount of an analyte in the liquid sample; the assay device further comprising a sample presence signal generation means, which is not generated by means of an immunoreaction. This sample presence signal generation means can comprise a coloured portion, which is overlaid by a material (e.g. nitrocellulose) that is opaque, when dry, and translucent or transparent, when wet, to allow the coloured portion to become visible to the user. In another embodiment the signal generation means comprises a colour changing material which under-goes a change in its visible properties upon wetting (eg. pH indication). A third embodiment uses a mobilisable detectable which, when wetted by the sample, is carried along resulting in a streaked line parallel with the flow direction.